

FIG. 1A

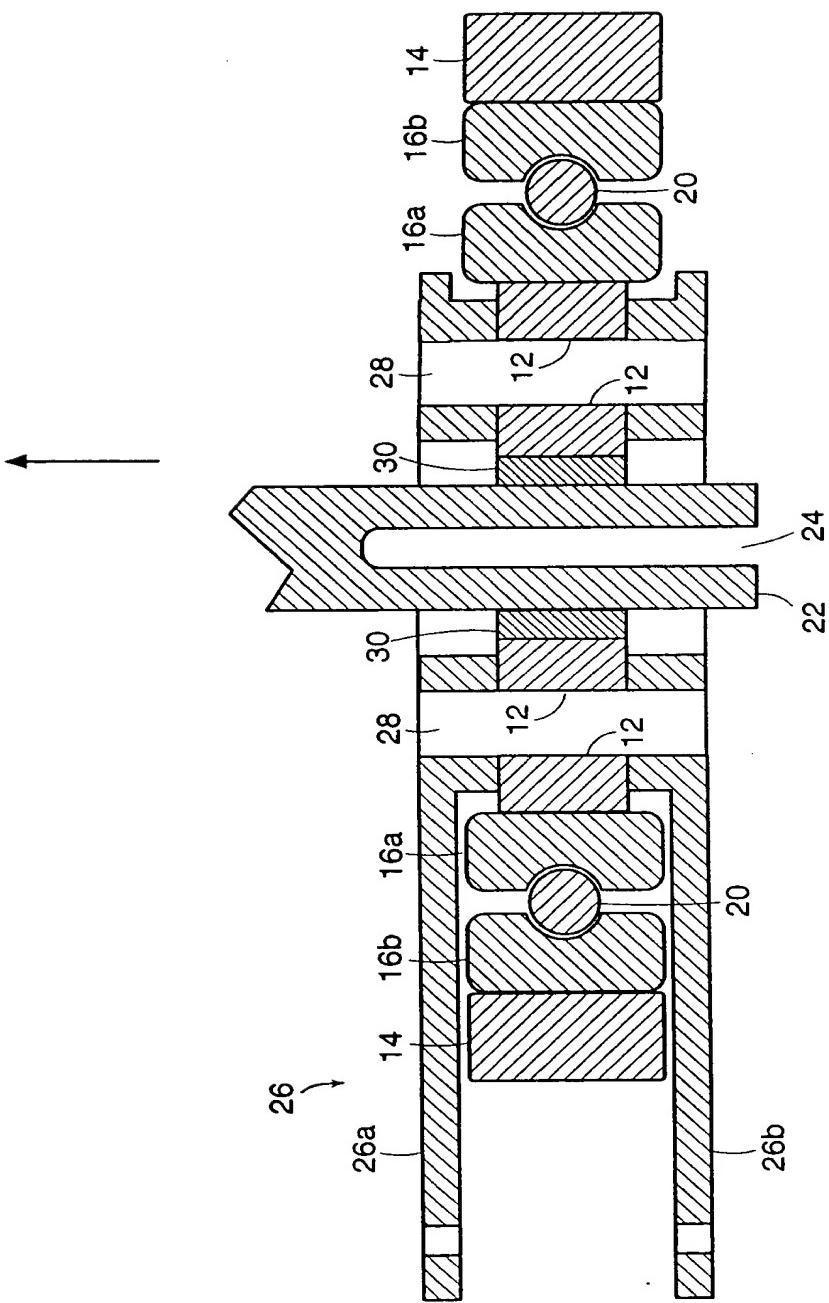


FIG. 1B

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FIG. 2A	FIG. 2B
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FIG. 2

PV. LIMITS BASED ON INCREASING SPEED AND INCREASING PRESSURE

TEST #	POLYMERIC MATRIX	COMMERCIALLY AVAILABLE COMPETITIVE MATERIALS (PREBLENDED)	COMPOSITIONS		
			POLYMERIC MATRIX MATERIALS USED FOR EXEMPLARY COMPOSITIONS	%	FIRST ADDITIVE
1	PEI		ULTEM 1010	55	DKD FIBER
2	PEI		ULTEM 1010	55	DKD FIBER
3	PEI		ULTEM 1010	55	DKD FIBER
4	PEI		ULTEM 1010	55	DKD FIBER
5	PEI		ULTEM 1010	55	DKD FIBER
6	PEI		ULTEM 1010	50	DKD FIBER
7	PEI		ULTEM 1010	70	TFE FIBER
8	PEI		ULTEM 1010	70	DKA FIBER
9	PEI		ULTEM 1010	60	DKA FIBER
10	PEI		ULTEM 1010	50	DKA FIBER
11	PEI		ULTEM 1010	40	DKA FIBER
12	PEI		ULTEM 1010	30	DKD FIBER
13	PEI		ULTEM 1010	100	
14	PEI	ULTEM 7201		80	CARBON FIBER
15	PEI	ULTEM 7301		75	CARBON FIBER
16	PEI	EL 4040		80	
17	PEEK		VICTREX 150	55	DKD FIBER
18	PEEK		VICTREX 150	55	DKD FIBER
19	PEEK		VICTREX 150	55	DKD FIBER
20	PEEK	VICTREX FC 30		70	CARBON FIBER
21	PEEK	VICTREX FC 30		70	CARBON FIBER
22	PEEK	VICTREX CA 30		70	CARBON FIBER
23	PEEK	VICTREX CA 30		70	CARBON FIBER
24	PI		AUREM	55	DKD FIBER
25	PI/PEI		AUREM/ULTEM 1010	44/11	DKD FIBER
26	PI/PEI		AUREM/ULTEM 1010	37.5/12.5	DKD FIBER
27	PI	AUREM JNF 3020		80	
28	PI	AUREM JNF 3025			
29	PI	AUREM JCN 6530		70	CARBON FIBER
30	PI	AUREM JCF 6525			CARBON FIBER
31	LCP/PEI		LCP/ULTEM 1010	37.5/12.5	DKD FIBER
32	LCP	VECTRA B230		70	CARBON FIBER
33	PPS		TICONA 020584	55	DKD FIBER
34	PPS		TICONA 020584	50	DKD FIBER
35	PPS	OL 4060		70	
36	PAI	TORION 7130		70	CARBON FIBER
37	PAI	TORION 4301		85	

FIG. 2A

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PV. LIMITS BASED ON INCREASING SPEED AND INCREASING PRESSURE

COMPOSITIONS				PV LIMIT	PV LIMIT
%	SECOND ADDITIVE(S)	%	METHOD OF BLENDING	BASED ON INCREASING VELOCITY @ 100 PSI	BASED ON INCREASING PRESSURE @ 25 FPM
30	TFE FIBER	15	SOLVENT	90,000	50000+
30	TFE FIBER	15	SOLVENT	97,000+	65000+
30	TFE FIBER	15	SOLVENT	90,000+	
30	TFE FIBER	15	DRY	60,000	
30	TFE POWDER	15	SOLVENT	60,000	
25	BN PLATELETS	25	SOLVENT	90,000+	
30			SOLVENT	40,000	
30			SOLVENT	30,000	
40			SOLVENT	50,000	
50			SOLVENT	60,000	
60			SOLVENT	70,000	
60	BN PLATELETS	10	SOLVENT	90,000+	
			PREBLEND	<10,000	
20			PREBLEND	40,000	
25			PREBLEND	20,000	
	TFE POWDER	20	PREBLEND	20,000	
30	BN PLATELETS	15	DRY	60,000	
30	BN PLATELETS	15	DRY	50,000	
25	BN PLATELETS	25	DRY	80,000	
10	GRAPHITE POWDER/TFE POWER	10/10	PREBLEND	30,000	30,000
10	GRAPHITE POWDER/TFE POWER	10/10	PREBLEND	40,000	30,000
30			PREBLEND	30,000	30,000
30			PREBLEND	50,000	40,000
30	TFE FIBER	15	DRY	70,000	
30	TFE FIBER	15	CONCENTRATE	90,000	
25	BN PLATELETS	25	CONCENTRATE	90,000	
	TFE POWDER	20	PREBLEND	50,000	50,000
	TFE POWDER		PREBLEND	40,000	30,000
30			PREBLEND	40,000	45,000
			PREBLEND	40,000	30,000
25	BN PLATELETS	25	CONCENTRATE	90,000	
30			PREBLEND	10,000	15,000
30	TFE FIBER	15	DRY	50,000	56,000
25	BN PLATELETS	25	DRY	50,000	
	TFE POWDER	30	PREBLEND	30,000	30,000
30			PREBLEND	30,000	35,000
	GRAPHITE POWDER/TFE POWER	12/3	PREBLEND	30,000	20,000

FIG. 2B

BEARING WEAR PROPERTIES OF THE PRESENT COMPOSITIONS
IN COMPARISON TO COMMERCIALLY AVAILABLE COMPOSITIONS

TEST #	POLYMERIC MATRIX	COMMERCIALLY AVAILABLE COMPETITIVE MATERIALS (PREBLENDED)	COMPOSITIONS		
			POLYMERIC MATRIX MATERIALS USED FOR EXEMPLARY COMPOSITIONS	%	FIRST ADDITIVE
38	PEI		ULTEM 1010	55	DKD FIBER
39	PEI		ULTEM 1010	55	DKD FIBER
40	PEI		ULTEM 1010	55	DKD FIBER
41	PEI		ULTEM 1010	50	DKD FIBER
42	PEI		ULTEM 1040	30	DKD FIBER
43	PEI	ULTEM 7201		80	CARBON FIBER
44		EL4040		80	
45	PEEK		VICTREX 150	55	DKD FIBER
46	PEEK		VICTREX 150	55	DKD FIBER
47	PEEK		VICTREX 150	50	DKD FIBER
48	PEEK		VICTREX 150	50	DKD FIBER
49	PEEK		VICTREX 150	30	DKD FIBER
50	PEEK		VICTREX 150/ULTEM 1010	41/9	DKD FIBER
51	PEEK	VICTREX FC30		70	CARBON FIBER
52	PEEK	VICTREX CA30		70	CARBON FIBER
53	PEEK	EL 4030		85	
54	PI/PEI		AUREM/ULTEM 1010	44/11	DKD FIBER
55	PI/PEI		AUREM/ULTEM 1010	37.5/12.5	DKD FIBER
56		AUREM JCF 6525			
57	PI	AUREM JCN 6530		70	CARBON FIBER
58	PI	AUREM JCF 3020		80	
59	LCP/PEI		LCP/ULTEM 1010	37.5/12.5	DKD FIBER
60	LCP	XYDAR 96043		40	CARBON FIBER
61	LCP	VICTRA E230		70	CARBON FIBER
62	PPS		TICONA 020584	55	DKD FIBER
63	PPS		TICONA 020584	50	DKD FIBER
64	PPS	DL 4040		80	
65	PPS	1350AR15TFE15		70	ARAMID FIBER
FOOTNOTE 1: THE PV LIMIT BASED ON INCREASING SPEED AT 200 PSI IS:					
		PV LIMIT	SHAFT TEMPERATURE	COEFFICIENT OF FRICTION	
		180,000	315	0.02	
		180,000	310	0.03	

FIG. 3A	FIG. 3B	FIG. 3C
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FIG. 3A

FIG. 3

BEARING WEAR PROPERTIES OF THE PRESENT COMPOSITIONS IN COMPARISON TO COMMERCIALLY AVAILABLE COMPOSITIONS

COMPOSITIONS

%	SECOND ADDITIVE(S)	%	METHOD OF BLENDING
30	TFE FIBER	15	SOLVENT
30	TFE FIBER	15	EXTRUSION
30	TFE POWDER	15	SOLVENT
25	BN PLATELETS	25	SOLVENT
60	BN PLATELETS	10	SOLVENT
20			PREBLEND
	TFE POWDER	20	
30	TFE FIBER	15	DRY
30	BN PLATELETS	15	DRY
25	BN PLATELETS	25	DRY
25	BN PLATELETS	25	EXTRUSION
70			DRY
25	BN PLATELETS	25	CONCENTRATE
10	GRAPHITE POWDER TFE POWDER	10/10	PREBLEND
30			PREBLEND
	TFE POWDER	15	PREBLEND
30	TFE FIBER	15	CONCENTRATE
25	BN PLATELETS	25	CONCENTRATE
			PREBLEND
30			PREBLEND
	TFE FIBER	20	PREBLEND
25	BN PLATELETS	25	CONCENTRATE
60			PREBLEND
30			PREBLEND
30	TFE FIBER	15	DRY
25	BN PLATELETS	25	DRY
	TFE POWDER	20	PREBLEND
15	TFE POWDER	15	PREBLEND

FIG. 3B

BEARING WEAR PROPERTIES OF THE PRESENT COMPOSITIONS IN COMPARISON TO COMMERCIALLY AVAILABLE COMPOSITIONS

IN COMPARISON TO COMMERCIAL									
	WEAR (K) PRESSURE X VELOCITY			SHAFT TEMPERATURE (F) PRESSURE X VELOCITY			COEFFICIENT OF FRICTION PRESSURE X VELOCITY		
	50x200	100x100	200x50	50x200	100x100	200x50	50x200	100x100	200x50
8	12	16	140	170	180	0.2	0.22	0.21	
25	21	23	180	255	220	0.32	0.28	0.28	
13	15	25	200	250	195	0.4	0.36	0.3	
15	23	12	170	170	160	0.24	0.19	0.19	
18	10	12	132	170	174	0.24	0.19		
173	70	79	365	265	335	0.52	0.24		
101	52	66	250	250	250	0.36	0.12	0.2	
22	26	19	320	245	250	0.3	0.3	0.3	
9	9	6	150	175	160	0.32	0.24	0.19	
6	6	2	155	175	160	0.32	0.24	0.2	
19	19	10	135	175	150	0.24	0.22	0.2	
24		36	142		142	0.3		0.24	
19	19	10	135	180	165	0.24	0.22	0.22	
177	160	251	306	290	260	0.33	0.4	0.2	
500	77	120	350	310	375	0.62	0.56	0.7	
172	22	30	204	238	208	0.34	0.21	0.2	
20	35	20	210	205	220	0.28	0.28	0.32	
4	10	9	190	212	190	0.3	0.2	0.18	
269	240	185	374	115	337	0.45	0.44	0.38	
115	109	161	375	390	340	0.57	0.62	0.48	
113	108	143	250	334	150	0.38	0.29	0.19	
3	21	1	185	176	170	0.24	0.2	0.16	
241	223	210	187	180	100	0.4	0.38	0.4	
160	125	50	351	290	269	0.40	0.44	0.4	
		16			251			0.39	
26	18	10	210	226	234	0.29	0.27	0.28	
256	48	110	298	201	251	0.43	0.16	0.25	
124	192	509	250	302	272	0.25	0.17	0.27	

FIG. 3C

WEAR PROPERTIES AT HIGH VALUES OF PRESSURE X VELOCITY

TEST #	POLYMERIC MATRIX	COMMERCIALLY AVAILABLE COMPETITIVE MATERIALS (PREBLENDED)	COMPOSITIONS						METHOD OF BLENDING
			POLYMERIC MATRIX MATERIALS USED FOR EXEMPLARY COMPOSITIONS	%	FIRST ADDITIVE	%	SECOND ADDITIVE(S)	%	
66	PEI	ULLEM 1010	55	DKD FIBER	30	TFE FIBER	15	SOLVENT	
67	PEI	ULTEM 1010	55	DKD FIBER	30	TFE FIBER	15	EXTRUSION	
68	PEI	ULTEM 1010	50	DKD FIBER	25	BN PLATELETS	25	SOLVENT	
69	PEI	ULTEM 1010	30	DKD FIBER	60	BN PLATELETS	10	SOLVENT	
70	PEI	ULTEM 1040	28	DKD FIBER	70	DCA-7105	2	SOLVENT	
71	PEI	ULLEM 7201	80	CARBON FIBER	20			PREBLEND	
72	PEEK	VICTREX 150	55	DKD FIBER	30	TFE FIBER	15	DRY	
73	PEEK	VICTREX 150	50	DKD FIBER	25	BN PLATELETS	25	EXTRUSION	
74	PEEK	VICTREX 150	50	DKD FIBER	25	BN PLATELETS	25	DRY	
75	PEEK	VICTREX 150	29	DKD FIBER	70	CAPOW L38/H	1	DRY	
76	PEEK	VICTREX 150	48	DKD FIBER	25	BN PLATELETS/DCA-7105	25/2	DRY	
77	PEEK	VICTREX FC 30	70	CARBON FIBER	10	GRAPHITE POWDER/TFE POWDER	10/10	PREBLEND	
78	PEEK	VICTREX CA 30	70	CARBON FIBER	30			PREBLEND	
79	PPS	TICONA 020584	28	DKD FIBER	70	DC4-7105	2	DRY	
80	PPS	TICONA 020584	30	DKD FIBER	10	GRAPHITE POWDER	60	DRY	
81	PPS	OL 4040	80			TFE POWDER	20	PREBLEND	
82	PI/PEI	AUREMULTEM 1010	44/6	DKD FIBER	25	TFE FIBER	25	CONCENTRATE	
83	PI/PEI	AUREMULTEM 1010	38/12	DKD FIBER	25	BN PLATELETS	25	CONCENTRATE	
84	PI	AUREM JCN 6530	70	CARBON FIBER	30			PREBLEND	
85	PI	AUREM JNF 3020	80			TFE POWDER	20	PREBLEND	

FOOTNOTES:

1. AFTER 1 HOUR
2. AFTER 3 HOURS
3. AFTER 5 MINUTES
4. AFTER 15 MINUTES
5. AFTER 1 MINUTE

FIG. 4A	FIG. 4B
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FIG. 4A

FIG. 4

WEAR PROPERTIES AT HIGH VALUES OF PRESSURE X VELOCITY

WEAR (K)	SHAFT TEMPERATURE (F)			COEFFICIENT OF FRICTION		
	PRESSURE X VELOCITY	PRESSURE X VELOCITY	PRESSURE X VELOCITY	PRESSURE X VELOCITY	PRESSURE X VELOCITY	PRESSURE X VELOCITY
10,000	20,000	40,000	80,000	100,000	10,000	20,000
200x50	200x100	200x200	200x400	200x500	200x50	40,000
16	61	70	MELTED(1)	180	210	MELTED(1)
23	72	MELTED(5)	220	340	MELTED(5)	0.28
12	55	35	MELTED(2)	160	241	MELTED(2)
12	18	50	23	79	174	229
39	40	30	84	43	160	155
79					165	260
19	63	63	229	MELTED(6)	250	290
10	22	22	91	MELTED	240	460
2	36				259	MELTED(6)
22	31	16	25	19	160	193
12	25	22	20	15	140	170
251	MELTED				167	193
120	MELTED				200	222
16	46	32	74	MELTED	260	MELTED
50	46	51	MELTED	390	200	245
110	165	MELTED(3)			295	MELTED(4)
20		80	MELTED(5)		360	MELTED
4	20	46	32	MELTED(5)	190	235
201	MELTED(1)	MELTED(3)			340	MELTED(1) MELTED(3)
143		287			150	270

FIG. 4B

FIG. 5A
FIG.
5B

FIG. 5

BEARING WEAR PROPERTIES AT HIGH LOADS AND LOW SPEEDS

TEST #	POLYMERIC MATRIX	COMMERCIALLY AVAILABLE COMPETITIVE MATERIALS (PREBLENDED)	COMPOSITIONS			
			POLYMERIC MATRIX MATERIALS USED FOR EXEMPLARY COMPOSITIONS	%	FIRST ADDITIVE	%
86	PE		ULTEM 1010	55	DKD FIBER	30
87	PEI		ULTEM 1010	50	DKD FIBER	25
88	PEI		ULTEM 1010	30	DKD FIBER	60
89	PEI		ULTEM 1040	28	DKD FIBER	70
90	PEI	ULTEM 7201		80	CARBON FIBER	20
91	PEEK	VICTREX 150	55	DKD FIBER	30	TFE FIBER
92	PEEK	VICTREX 150	50	DKD FIBER	25	BN PLATELETS
93	PEEK	VICTREX 150	29	DKD FIBER	70	CAPOW L38/H
94	PEEK	VICTREX 150	48	DKD FIBER	25	BN PLATELETS/DC4-7105
95	PEEK	VICTREX 150	48	DKD FIBER	25	BN PLATELETS/DC4-7105
96	PEEK	VICTREX FC30		70	CARBON FIBER	10
97	PEEK	VICTREX CA30		70	CARBON FIBER	30
98	PPS	TICONA 020584	28	DKD FIBER	70	DC4-7105
99	PPS	TICONA 020584	30	DKD FIBER	10	GRAPHITE POWDER
100	PPS	OL 4040	80			TFE POWDER

FIG. 5A

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BEARING WEAR PROPERTIES AT HIGH LOADS AND LOW SPEEDS

%	METHOD OF BLENDING	WEAR (K)	SHAFT TEMPERATURE (F)	COEFFICIENT OF FRICTION
15	SOLVENT	15	280	0.2
25	SOLVENT	38	160	0.32
10	SOLVENT	28	170	0.3
2	SOLVENT	9	143	0.13
	PREBLEND	MELTED	MELTED	MELTED
15	DRY	33	230	0.06
25	DRY	20	180	0.09
1	DRY	19	210	0.1
25/2	DRY	20	250	0.1
25/2	DRY	11	180	0.16
10/10	PREBLEND	MELTED	MELTED	MELTED
	PREBLEND	MELTED	MELTED	MELTED
2	CONCENTRATE	33	250	0.17
60	CONCENTRATE	124	250	0.36
20	PREBLEND	MELTED	MELTED	MELTED

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FIG. 5B

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ADDITIVE	THERMAL CONDUCTIVITY (W/m°C)
ALUMINUM FLAKE	204
BORON NITRIDE POWDER	33-200
BRONZE POWDER	26
GRAPHITE POWDER	
STEEL FIBER	52
STAINLESS STEEL FIBER	12-22

FIG. 6

POLYMERIC MATRIX MATERIAL	COMPOSITION				WEAR (K)	SHAFT TEMP (°F)	CO-EFFICIENT OF FRICTION	TEST DURATION (HRS.)
	FIRST ADDITIVE	SECOND ADDITIVE	% BY VOLUME	% BY WEIGHT	TYPE OF CARBON FIBER	METHOD OF BLENDING		
PEI ULTEM 1040	DKD		70/30	57.5/42.5	PITCH	SOLVENT	26	175
PEI ULTEM 1040	DKD		60/40	46/54	PITCH	SOLVENT	37	163
PEI ULTEM 1040	AGM 94		70/30	62/38	PAN	SOLVENT	206	360
PEI ULTEM 1010	AGM 94		60/40	51/49	PAN	SOLVENT	366	205
PEI ULTEM 1010	AGM 94		50/50	41/59	PAN	SOLVENT	210	280
PEI ULTEM 1040	AGM 95		50/50	40/60	PITCH	SOLVENT	180	290
PEI ULTEM 1040	AGM 94		43/57	35/65	PAN	SOLVENT	530	200
PEI ULTEM 1010	AGM 94	BN PLATELETS	60/20/20	49/23/28	PAN	SOLVENT	10,000+	260
PEI ULTEM 1040	VMX-24	BN PLATELETS	60/20/20	48/24/28	PITCH	SOLVENT	10,000+	229
PEI ULTEM 1040	VMX-24		60/40	50/50	PITCH	SOLVENT	112	370+
PEEK	DIALEAD K223 HG		60/40	48/52	PITCH	DRY	12	140
PPS	DKD		60/40	48/52	PITCH	DRY	24	225

FIG. 7A	FIG. 7B
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FIG. 7

FIG. 7A

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PPS	DIALEAD K223 HG	BN PLATELETS	64/18/18	50/25/25	PITCH	DRY	6	125	0.22	24
PPS	FORTAFIL				PAN	DRY	599	253	0.36	24
PPS	DIALEAD K223 HG LF	BN PLATELETS			PITCH	DRY	6	180	0.36	24
PC	DKD	BN PLATELETS	60/20/20	47/27/27	PITCH	SOLVENT	70	141	0.16	24
PC	GM 130	BN PLATELETS	60/20/20	48/23/29	PAN	SOLVENT	9875	300	0.36	2
PEI	ULTEM 1040	DKD	87.5/12.5	80/20	PITCH	SOLVENT	57	195	0.24	24
PEI	ULTEM 1010	DKD	64/36	50/50	PITCH	SOLVENT	24	190	0.26	100
PEI	ULTEM 1010	DKD	54/46	40/60	PITCH	SOLVENT	38	176	0.34	24
PEI	ULTEM 1010	DKD	43/57	30/70	PITCH	SOLVENT	29	158	0.24	100
PEI	ULTEM 1010	DKD	43/49/8	30/60/10	PITCH	SOLVENT	12	174	0.24	100
PEI	ULTEM 1010	DKD	64/18/18	50/25/25	PITCH	SOLVENT	12	160	0.18	100

FIG. 7B

PRODUCT NAME	SUPPLIER	TYPE OF FIBER	T _c (W/mC)	DENSITY (gm/cc)	AVERAGE DIAMETER (MICRONS)	AVERAGE LENGTH (MICRONS)	ASPECT RATIO
DKA	BPAMOCO CORPORATION	PITCH	900	2.2	10	200	
DKD	BPAMOCO CORPORATION	PITCH	600	2.2	10	200	
VMX-24	BPAMOCO CORPORATION	PITCH	22	1.9	11	200	
AGM 94	ASBURY GRAPHITE MILLS	PAN		1.81	7	150	
AGM 95	ASBURY GRAPHITE MILLS	PITCH		1.91	11	200	
FORTAFIL 382	FORTAFIL FIBERS INC.	PAN		1.8	7	175	
FORTAFIL 482	FORTAFIL FIBERS INC.	PAN		1.8	7	175	
GRAFIL GM130E	GRAPHIL INC.	PAN	7	1.8	7	130	
PYROFIL TR50S	GRAPHIL INC.	PAN	7	1.82	7	8000	
DALEAD K 6371M	MITSHUBISHI CHEMICAL AMERICA	PITCH	140	2.1	7	50	
DALEAD K 223HGLG	MITSHUBISHI CHEMICAL AMERICA	PITCH	540	2.2	7	6000	
DALEAD K 223HG	MITSHUBISHI CHEMICAL AMERICA	PITCH	540	2.2	7	300	

FIG. 8

FIG. 9A	FIG. 9B
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FIG. 9

TEST #	POLYMERIC MATRIX	COMPARATIVE COMPOSITIONS			%
		POLYMERIC MATRIX MATERIALS USED FOR COMPARATIVE COMPOSITIONS	%	FIRST ADDITIVE	
101	PEI	ULTEM 1010		ALUMINUM FLAKE	
102	PPS		65	ALUMINUM FLAKE	16
103	PEI	ULTEM 1010	60	BRONZE POWDER	40
104	PEI	ULTEM 1040	60	BRONZE POWDER	20
105	PEI	ULTEM 1040	60	STEEL FIBER	20
106	PC		81	STAINLESS STEEL FIBER	19
107	PEI	ULTEM 1010	60		
108	PEI	ULTEM 1010	64	AGM 323 GRAPHITE	36

FIG. 9A

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WEAR PROPERTIES

WEAR (K)	SHAFT TEMPERATURE (F)	COEFFICIENT OF FRICTION	TEST DURATION (HRS)
4400	150	<0.7	0.03
<10000	170	0.48	1
935	240	0.45	24
225	215	0.42	24
969	245	0.5	18
657	241	0.54	10.5
10,324	240	0.46	0.31
167	190	0.34	40

FIG. 9B

MATRIX	% WGT.	FIBER	% WGT.	FILLER	% WGT.	IN-PLANE	THRU-PLANE	IN-PLANE
XYDAR 96403 LCP	40	DKD	60			2.85	5.13	
XYDAR 96403 LCP (REPROCESSED)	40	DKD	60			2.94	6.83	
PPS	40			ALUMINUM FLAKE	60	8.58	8.13	
PPS	30			ALUMINUM FLAKE	70	14.98	15.12	
PPS	20			ALUMINUM FLAKE	80	20	21.7	
PPS	40	DKD	30	ALUMINUM FLAKE	30	4.5	5.36	
PPS	50	DKD	50			2.52	4.65	
PPS	40	DKD	60			2.92	7.36	
PPS	30	DKD	70			5.38	9.5	
PPS	50			BORON NITRATE	50	0.8	1.1	
PEI	55	DKD	25	TEFLON FLOCK	25	0.99	1.6	
PEEK	50	DKD	25	BORON NITRIDE	25	1.15	2.86	

FIG. 10A
FIG. 10B

FIG. 10

FIG. 10A

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			ALUMINUM FLAKE	50	1.76	2
PPS	50					
PEEK	30	DKD	70		4.39	10.5
PEEK	50		BORON NITRIDE	50	1.69	2.1
PPS	50		ALUMINUM FLAKE BORON NITRIDE	25/25		4.79
XYDAR 96403 LCP	40	DKD	60			1.97
PEI	50	DKA	50			1.44
PEI	50	DKD	25	BORON NITRIDE	25	1.56
FERRO 511TG 72001 PEN	40	BN PWD	60			3.82
PEI	70	DKA	30			0.82
PEI	60	DKA	40			1.03
PEI	40	DKA	60			2.51

FIG. 10B